

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/575,361  
Source: 1 FWP  
Date Processed by STIC: 4/25/06

# ***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/575,361

CRF Edit Date: 4/25/06  
Edited by: AW

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted:    invalid beginning/end-of-file text ;    page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



IFWP

## RAW SEQUENCE LISTING

DATE: 04/25/2006

PATENT APPLICATION: US/10/575,361

TIME: 16:02:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04252006\J575361.raw

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3 <110> APPLICANT: Bayer HealthCare AG
5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with
6   Aminopeptidase-Like 1 (NPEPL1)
8 <130> FILE REFERENCE: BHC 03 01 006
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/575,361
C--> 10 <141> CURRENT FILING DATE: 2006-04-11
10 <160> NUMBER OF SEQ ID NOS: 5
12 <170> SOFTWARE: PatentIn version 3.1
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 1691
16 <212> TYPE: DNA
17 <213> ORGANISM: Homo sapiens
19 <400> SEQUENCE: 1
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21 caggcgagcg cgggggactc ggaccacag agccggcccc tgctgctgct cgggcagctg      120
22 caccacctgc accgcgtgcc ctggagccac gtccgcggga agctgcagcc ccgggtcacc      180
23 gaggagctct ggcaggctgc cctgagcacg ctcaacccca accccacgga cagctgtccc      240
24 ctctacctaa ctacgccacc gtggctgccc tgccctgcag ggtgagccgg cacaacagcc      300
25 cctcggccgc ccacttcac acgcggctgg tgcggacctg cctgccgccc ggagcgcac      360
26 gctgcattgt gatggtctgc gagcagccag aggtctttgc ttccgcctgt gccctggccc      420
27 gggccttccc gctgttcacc caccgctcag gtgcctctcg gcgcttgag aagaagacgg      480
28 tcaccgtgga gtttttcctg gtgggacaag acaacggggc ggtggaggtg tccacattgc      540
29 agtgcttagc gaatgccaca gacggcgtgc ggctagcagc ccgcatcgtg gacacaccct      600
30 gcaatgagat gaacaccgac accttcctcg aggagattaa caaagctgga aaggagctgg      660
31 ggatcatccc aaccatcatc cgggatgagg aactgaagac gagaggattt ggaggaatct      720
32 atgggggttg caaagccgcc ctgcatcccc cagccctggc cgtcctcagc cacaccccag      780
33 atggagccac gcagaccatc gcctgggtgg gcaaaggcat cgtctatgac actggaggcc      840
34 tcagcatcaa aggaagact accatgccgg ggatgaagcg agactgcggg ggtgctgcgg      900
35 ccgtcctggg ggccttcaga gccgcaatca agcagggttt caaagacaac ctccacgctg      960
36 tgttctgctt ggctgagaac tcggtggggc ccaatgcgac agggccagat gacatccacc     1020
37 tgctgtactc aggaagacg gtggaaatca acaacacgga tgccgagggc aggctggtgc     1080
38 tggcagatgg cgtgtcctat gcttgcaagg acctgggggc cgacatcatc ctggacatgg     1140
39 ccaccctgac cggggctcag ggcattgcc aagggaagta ccacgccgcg gtgctcacca     1200
40 acagcgctga gtgggaggcc gcctgtgtga aggcgggcag gaagtgtggg gacctggtgc     1260
41 acccgctggt ctactgcccc gagctgcact tcagcgagtt cacctcagct gtggcggaca     1320
42 tgaagaactc agtggcggac cgagacaaca gccccagctc ctgtgctggc ctcttcacg     1380
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45 gtgcctctga ggaccctctg ctgaacctgg tgtccccact gggctgtgag gtggatgtcg     1560
46 aggaggggga cctggggagg gactccaaga gacgcaggct tgtgtgagcc tcctgcctcg     1620
47 gccctgacaa acggggatct ttacctcac ttgcactga ttaattttaa gcaattgaaa     1680
48 gattgccctt c
1691
50 <210> SEQ ID NO: 2

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## RAW SEQUENCE LISTING

DATE: 04/25/2006

PATENT APPLICATION: US/10/575,361

TIME: 16:02:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04252006\J575361.raw

51 &lt;211&gt; LENGTH: 411

52 &lt;212&gt; TYPE: PRT

53 &lt;213&gt; ORGANISM: Homo sapiens

55 &lt;400&gt; SEQUENCE: 2

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56 Met Val Cys Glu Gln Pro Glu Val Phe Ala Ser Ala Cys Ala Leu Ala
57 1          5          10          15
58 Arg Ala Phe Pro Leu Phe Thr His Arg Ser Gly Ala Ser Arg Arg Leu
59          20          25          30
60 Glu Lys Lys Thr Val Thr Val Glu Phe Phe Leu Val Gly Gln Asp Asn
61          35          40          45
62 Gly Pro Val Glu Val Ser Thr Leu Gln Cys Leu Ala Asn Ala Thr Asp
63          50          55          60
64 Gly Val Arg Leu Ala Ala Arg Ile Val Asp Thr Pro Cys Asn Glu Met
65 65          70          75          80
66 Asn Thr Asp Thr Phe Leu Glu Glu Ile Asn Lys Val Gly Lys Glu Leu
67          85          90          95
68 Gly Ile Ile Pro Thr Ile Ile Arg Asp Glu Glu Leu Lys Thr Arg Gly
69          100         105         110
70 Phe Gly Gly Ile Tyr Gly Val Gly Lys Ala Ala Leu His Pro Pro Ala
71          115         120         125
72 Leu Ala Val Leu Ser His Thr Pro Asp Gly Ala Thr Gln Thr Ile Ala
73          130         135         140
74 Trp Val Gly Lys Gly Ile Val Tyr Asp Thr Gly Gly Leu Ser Ile Lys
75 145         150         155         160
76 Gly Lys Thr Thr Met Pro Gly Met Lys Arg Asp Cys Gly Gly Ala Ala
77          165         170         175
78 Ala Val Leu Gly Ala Phe Arg Ala Ala Ile Lys Gln Gly Phe Lys Asp
79          180         185         190
80 Asn Leu His Ala Val Phe Cys Leu Ala Glu Asn Ser Val Gly Pro Asn
81          195         200         205
82 Ala Thr Arg Pro Asp Asp Ile His Leu Leu Tyr Ser Gly Lys Thr Val
83          210         215         220
84 Glu Ile Asn Asn Thr Asp Ala Glu Gly Arg Leu Val Leu Ala Asp Gly
85 225         230         235         240
86 Val Ser Tyr Ala Cys Lys Asp Leu Gly Ala Asp Ile Ile Leu Asp Met
87          245         250         255
88 Ala Thr Leu Thr Gly Ala Gln Gly Ile Ala Thr Gly Lys Tyr His Ala
89          260         265         270
90 Ala Val Leu Thr Asn Ser Ala Glu Trp Glu Ala Ala Cys Val Lys Ala
91          275         280         285
92 Gly Arg Lys Cys Gly Asp Leu Val His Pro Leu Val Tyr Cys Pro Glu
93          290         295         300
94 Leu His Phe Ser Glu Phe Thr Ser Ala Val Ala Asp Met Lys Asn Ser
95 305         310         315         320
96 Val Ala Asp Arg Asp Asn Ser Pro Ser Ser Cys Ala Gly Leu Phe Ile
97          325         330         335
98 Ala Ser His Ile Gly Phe Asp Trp Pro Gly Val Trp Val His Leu Asp
99          340         345         350
100 Ile Ala Ala Pro Val His Ala Gly Glu Arg Ala Thr Gly Phe Gly Val

```

## RAW SEQUENCE LISTING

DATE: 04/25/2006

PATENT APPLICATION: US/10/575,361

TIME: 16:02:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04252006\J575361.raw

```

101          355          360          365
102 Ala Leu Leu Leu Ala Leu Phe Gly Arg Ala Ser Glu Asp Pro Leu Leu
103          370          375          380
104 Asn Leu Val Ser Pro Leu Gly Cys Glu Val Asp Val Glu Glu Gly Asp
105 385          390          395          400
106 Leu Gly Arg Asp Ser Lys Arg Arg Arg Leu Val
107          405          410
109 <210> SEQ ID NO: 3
110 <211> LENGTH: 21
111 <212> TYPE: DNA
112 <213> ORGANISM: artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: forward primer
117 <400> SEQUENCE: 3
118 ttttcctggg gggacaagac a                                21
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 21
122 <212> TYPE: DNA
123 <213> ORGANISM: artificial sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: reverse primer
128 <400> SEQUENCE: 4
129 cattcgctaa gcactgcaat g                                21
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 18
134 <212> TYPE: DNA
135 <213> ORGANISM: artificial sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: probe
140 <400> SEQUENCE: 5
141 cgggccgggtg gaggtgtc                                18

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/575,361

DATE: 04/25/2006

TIME: 16:02:07

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\04252006\J575361.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing  
(for reference only)**



IFWP

## RAW SEQUENCE LISTING

DATE: 04/24/2006

PATENT APPLICATION: US/10/575,361

TIME: 16:23:02

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04242006\J575361.raw

3 &lt;110&gt; APPLICANT: Bayer HealthCare AG

5 &lt;120&gt; TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases

Associated with Aminopeptidase-

6 Like 1 (NPEPL1)

8 &lt;130&gt; FILE REFERENCE: BHC 03 01 006

C--&gt; 10 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/575,361

C--&gt; 10 &lt;141&gt; CURRENT FILING DATE: 2006-04-11

10 &lt;160&gt; NUMBER OF SEQ ID NOS: 5

12 &lt;170&gt; SOFTWARE: PatentIn version 3.1

**Does Not Comply  
Corrected Diskette Needed**

## ERRORED SEQUENCES

132 &lt;210&gt; SEQ ID NO: 5

133 &lt;211&gt; LENGTH: 18

134 &lt;212&gt; TYPE: DNA

135 &lt;213&gt; ORGANISM: artificial sequence

137 &lt;220&gt; FEATURE:

138 &lt;223&gt; OTHER INFORMATION: probe

140 &lt;400&gt; SEQUENCE: 5

141 cgggccgggtg gaggtgtc

18

E--&gt; 143 BHC 03 1 006-Foreign Countries

W--&gt; 145 - 4 -

E--&gt; 148 BHC 03 1 006-Foreign Countries

W--&gt; 150 - 1 -



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/575,361

DATE: 04/24/2006  
TIME: 16:23:04

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\04242006\J575361.raw

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/575,361

DATE: 04/24/2006

TIME: 16:23:04

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\04242006\J575361.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:143 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5  
L:145 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
L:148 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5  
L:150 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5